

MINUTES OF THE REGULAR MEETING OF THE  
BOARD OF DIRECTORS OF THE COLUMBIA BASIN HYDROPOWER  
EPHRATA, WASHINGTON    MAY 28, 2019

President Alford called the regular meeting of the Columbia Basin Hydropower to order at 9:30 AM.

CBHP Directors

SCBID – Bryan Alford  
ECBID – Reid Baker  
SCBID - Richard Conrad  
QCBID – Mike LaPlant  
QCBID – Phil Stadelman  
ECBID – Duaine Anderson

Other CBHP Directors Attending

SCBID – Charles Lyall (Alt)  
QCBID – John Rylaarsdam (Alt)  
SCBID - J.J. Danz (Alt)

Others Attending

Darvin Fales, QCBID  
Michael Hill, TP  
Craig Simpson, ECBID  
Amy Rodman, USBR  
Dave Solem, SCBID  
Sara Millard, USBR  
Robin Cross, SCL  
Maurice Balcom, SCBID  
Orman Johnson, ECBID  
Tom Grim, Cable Huston  
Richard Lorenz, Cable Huston  
Marc Maynard, USBR  
Roger Sonnichsen, QCBID  
Others by telephone  
Norman Semanko

Staff

Tim Culbertson, Secretary-Manager  
Anna Franz, Attorney  
Jacob Taylor, Treasurer  
Judy Runge, Administrative Assistant  
Betty Craig, Technical Information Administrator  
Larry Thomas, Assistant Manager/Hydro Supervisor  
Bob Stoaks, Engineer  
Stacey Bresée, Data Management Technician  
Derek Wolf, Engineer

Introduction

Manager Culbertson introduced the project development attorneys' Tom Grim and Richard Lorenz with the firm Cable Huston who are attending the meeting today.

CONSIDERATION OF MEETING MINUTES

Richard Conrad moved that the minutes of the April 23, 2019 meeting be approved as distributed. Mike LaPlant seconded the motion. Motion passed.

ACKNOWLEDGEMENT, REVIEW AND/OR APPROPRIATE CONSIDERATION OF THE FOLLOWING:

Power Production Reports – April 2019

- (1) Accumulated Kilowatt Hours by Years for All Plants
- (2) Energy and Incentive Report

Accumulated Kilowatt Hours and Energy and Incentive reports were distributed in Board packets. Total April generation was 64.15% of 2014-2018 average.

EBC 4.6 AND PEC 66.0 Power Plants, Task Order No. 3, Change Order No. 1

Task Order No. 3, Change Order No. 1 was presented by Bob Stoaks for H2E engineering consultants to extend completion date for SCADA, PLC and Relay Replacement at the EBC 4.6 and PEC 66.0 power plants.

Phil Stadelman moved to approve Task Order No. 3, Change Order No. 1, Contract 12356-13-17. Mike LaPlant seconded the motion. Motion passed.

Travel Authorizations:

Richard Conrad moved to authorize attendance and payment of reasonable expenses for travel, lodging and meals for the following:

NWHA Joint Small Hydro and Technical Workshop, August 21&22, 2019,  
Bend, Oregon, Registration \$315 each – T. Culbertson and D. Fales

Mike LaPlant seconded the motion. Motion passed.

TREASURER'S REPORTFinancial Reports

The April 30, 2019 Balance Sheet (unaudited) and All Power Plants Income Statement (unaudited) were included in the Board packets for review.

Approval of Voucher

The Current Expense Voucher (O&M) was presented at the meeting for consideration. Check numbering is as follows:

Current Expense Voucher (O&M) - \$613,755.84  
Check Numbers: 18176-18277

On motion by Richard Conrad, seconded by Duaine Anderson, which motion passed unanimously, the Current Expense Voucher (O&M) dated May 28, 2019 in the amount of \$613,755.84 was approved.

Quincy Chute Project Costs

Treasurer Taylor is recommending the Board approve the payment of \$685,624.45 to Grant County PUD for CBHP's portion of the costs of the Quincy Chute Penstock Repair project. Treasurer Taylor mentioned that funds received from the dissolution of the Quincy Chute R&R Fund has been set aside and earmarked to cover this payment. Treasurer Taylor informed the Board that both the Treasurer and management had reviewed and audited the invoice and supporting documentation of the costs related to the Penstock Repair project provided by Grant PUD, and recommends that the Board approves the payment.

Mike LaPlant moved to approve the payment to Grant County PUD in the amount of \$685,624.45 to cover CBHP's portion of the Quincy Chute Penstock Repair project costs. Duaine Anderson seconded the motion. Motion passed.

STAFF AND OTHER REPORTS

The following written reports, attached and incorporated by reference, were made available for review and comments:

Field O&M Activities (Larry Thomas)  
Engineering (Bob Stoaks)  
Engineering (Derek Wolf)  
Technical Information (Betty Craig)

Derek Wolf presented the following bid results for the Russell D. Smith Governor/Hydraulic System Upgrade Contract:

American Governor Company	\$274,468.74
L&S Electric	\$377,697.60

Staff recommendation is awarding the contract to the lowest responsible bidder, American Governor Company in the bid amount of \$274,468.74.

Richard Conrad move to award American Governor Company the Russell D. Smith Governor/Hydraulic System Upgrade Contract in the amount of \$274,468.74. Phil Stadelman seconded the motion. Motion passed.

The Board made a motion at the April 23, 2019 meeting to offer Darvin Fales the position of manager and Mr. Fales is requesting that his starting sick leave balance equal to the current sick leave accrual at QCBID, be transferred to CBHP.

Richard Conrad moved to revise the offer letter to Darvin Fales to include the transfer starting sick leave balance equal to the Darvin Fales' sick leave accrual at QCBID. Phil Stadelman seconded the motion. Motion passed.

Project Development

Manager Culbertson reported on the latest development and interest in the BLPSP. Also he reminded the Board of the upcoming trip to Ohio and North Carolina to look at new conduit technologies.

Jacob Taylor reviewed the monthly summarized project development expense report for April 2019.

Columbia River Treaty

Manager Culbertson reported on the latest Power Group meeting and its activities.

USBR - No report

Cities - No report

Districts - No report

DATE OF NEXT BOARD MEETING - JUNE 25, 2019

Richard Conrad moved to change the July 23, 2019 regular Board of Directors meeting to Monday, July 22, 2019. Mike LaPlant seconded the motion. Motion passed.

RECESS AND RECONVENE

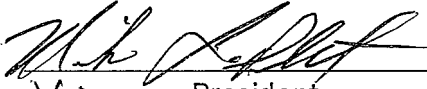
President Alford called for a 15-minute recess.

EXECUTIVE SESSION

At 10:30 AM President Alford called for a 60-minute executive session to discuss potential litigation.

RECONVENE AND ADJOURNMENT

There being no further business to come before the Board President Alford adjourned the meeting at 11:30 AM.

  
Vice President

  
Secretary

COLUMBIA BASIN HYDROPOWER  
Activity Report

For period April 12, 2019 to May 17, 2019  
Reported by: Larry Thomas Function: Field O&M Activities

Russell D. Smith Power Plant

- . Commissioning of the control system upgrade was completed.
- . A request for bids for replacement governor and hydraulic system was advertised.
- . April 26, the unit was placed online for the season following testing.
- . May 4, the plant shutdown at 2020 hours due to a blown fuse on pole-mounted A phase potential transformer. The unit was restarted May 6<sup>th</sup> at 1558 hours following testing of the PT and replacement of the fuse.
- . Output varied from 2.86 MW to 4.28 MW.

P.E.C. 66.0 Power Plant

- . Installation of automatic intake gate operation circuitry was completed.
- . A standby generator was rented and installed to temporarily replace the failed original. Also, a new replacement unit was ordered.
- . April 20 to May 13, the plant shutdown seven times due to low canal flow and once due to a plugged trash rack. May 14<sup>th</sup> the plant was reprogrammed to operate at a lower minimum output to reduce the low canal flow caused shutdowns.
- . Output varied from 0.1 MW to 1.6 MW.

E.B.C. 4.6 Power Plant

- . April 28, the plant was taken offline at 0751 hours due to the intake plugging with weeds. The plant was returned to service at 0820 hours.
- . May 7, the unit was taken offline at 1021 hours to make adjustments to the governor. The unit was returned to service at 1139 hours.
- . Output varied from 0.7 MW to 2.0 MW.

Main Canal Power Plant

- . Asbestos brakes and dust removal for the shop bridge crane were completed.
- . Construction of the new storage building was completed.
- . May 1, the unit was shut down at 0801 hours to inspect a section of 7kV bus work that smelled unusually hot. Inspection of the bus work revealed damage due to excessive heating caused by electrical tracking. May 13, the unit was returned to service at 1151 hours following repair of the damaged bus work. The repairs were supervised by a bus work manufacturer representative that traveled from Switzerland for the work. Also, a new replacement section of bus was ordered.
- . Output ranged from 11.6 MW to 24 MW.

Summer Falls Power Plant

- . No outages or abnormal conditions.
- . Output ranged from 35.6 MW to 94 MW.

## Columbia Basin Hydropower

## Activity Report

For Period: April 15, 2019 through May 20, 2019

Reported by: Robert Stoaks P.E.      Function: Engineering

- 1) SCADA/PLC/Relay replacement for all plants: RDS installation and commissioning has been completed. Coordinating communication with SCL and BoR. Finalizing the design for the 4.6 and 66 plants.
- 2) Seattle City Light is joining the EIM and requested the Current and Potential transformers accuracy class be verified and documented.
- 3) Discovered a line PT oil leak at the RDS, Big Bend Electric installed our spare PT. Requested quotes from vendors for replacement PTs.
- 4) Main Canal: Operator Justin Holland noticed a burning smell around the Duresca bus on 4/28. Coordinated outage for inspection on 5/1. A section of the bus was burned around a ground ring. Working with the manufacturer we determined the bus insulation was still intact. A manufacturer representative was onsite 5/9-5/10 for repair and the bus was installed 5/10. Main Canal was restarted on 5/13. A new section of bus is on order and expected in six to eight weeks.
- 5) A fuse failed on 5/4 at the RDS. There are three fuses that feed the line PTs, including the one that was recently replaced. After confirming that the replaced PT was on a different phase, Big Bend replaced the fuse, and we hipot tested the PTs to ensure there was not a failure. The RDS was back in service on 5/6.
- 6) Working on the RDS governor replacement contract and award.
- 7) Main Canal battery charger failed. Researching replacement options.
- 8) Reviewing loadability requirements of PRC-025 to implement at Main Canal and Summer Falls.
- 9) Elected Chair of the Rotating Machine Committee (power generation) at the International Doble Conference.
- 10) As a member of the Power System Economics Subcommittee of IEEE Power and Energy Society, I was asked to present a webinar with Andre Diniz from CEPEL in Brazil. The topic of the webinar will be calculation of Net Present Value and determining the correct Internal Rate of Return for utilities based on risk and return

## Columbia Basin Hydropower

Activities Report for the period of April 15<sup>th</sup>, 2019, through May 17<sup>th</sup>, 2019.

Derek Wolf, PE Mechanical Engineer

### General:

- Coordinating mechanical maintenance activities at all plants.
- Annual GCPUD Emergency Action Plan drill of PEC Headworks plant.
- Data prepared for meeting with WDFW in June regarding barrier net alternatives.

### Main Canal Power Plant:

- Construction of the storage building is complete. CBHP will be doing the wiring and access gate installation in-house as it not part of the Contract.
- Asbestos abatement for the shop bridge crane has completed.
- Barrier nets, float lines, and buoys installed in Banks Lake.
- Repair of isophase bus insulation completed.
- Investigation into governor accumulator leakage issues and misting phenomenon.

### Summer Falls Power Plant:

- Asbestos abatement in progress on Powerhouse Bridge Crane. Pad linings have been removed by All-Safe Abatement and new pads are being bonded to the shoes by Brake and Clutch out of Seattle.
- Asbestos test performed for the intake gate hoist brakes came back positive. Area has been labeled and replacement of brakes is being scheduled for the off-season.

### RDS Power Plant:

- Governor/hydraulic system upgrade contract has gone out to bid. Bid walk performed on April 24<sup>th</sup>. Currently answering questions from contractors and gathering field data. Bids due on May 20<sup>th</sup>.
- Issues with line-side PT oil leakage and blown fuse.

### EBC 4.6 Power Plant:

- Governor kidney loop system currently being installed.
- Load limiter issues being addressed.

## COLUMBIA BASIN HYDROPOWER

## Activity Report

For Period: April 15 through May 18, 2019Reported by: Betty Craig Function: Technical Information Dept.CMMS:

- CASCADE data entry is up to date.

NERC/WECC COMPLIANCE:

- Reviewed NERC & WECC websites for any upcoming deadlines or revisions to existing standards.
- Assigned annual cyber security online training to all employees.
- Began draft edits of Compliance MOU with the Cities.
- Completed Q1 eGADS reporting.
- Completed annual UFLS (PRC-006-WECC) reporting via WebCDMS.

NETWORKING & COMPUTERS:

- Routine security, maintenance, and verification of nightly backups.
- Assisted users with miscellaneous hardware and software issues.
- Loaded equipment testing software on field laptops.
- J5 logbook software was updated to latest framework.

HYDRO PROJECT DEVELOPMENT:

- None

RECORDS MANAGEMENT:

- Work continues on network file organization and discontinuation of project development binder.
- Began work on populating and organizing Agreement & Contracts folders on the network.
- Inventoried items in fire safe.

OTHER:

- Website updates.
- Ordered budgeted vehicle replacements.
- Installed battery tender in office vehicle.